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# CITRUS

## NOVEMBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE



November 12, 2002

### ORANGES 197.0 MILLION BOXES

The October 1 forecasts for all states are repeated in this report since no November forecasts are made. The Florida all orange forecast is 14 percent less than the 230.0 million boxes harvested last season. During the last 10 seasons, the all orange forecast has differed from final utilization by an average of 3.3 percent. Seasonal differences range from 9.4 percent below to 7.5 percent above. Four of the 10 seasons have been above and six have been below.

### FCOJ YIELD 1.57 GALLONS PER BOX

Since there are no November forecasts or projections, the forecast for FCOJ remains at 1.57 gallons per box at 42.0 degrees Brix equivalent. Maturity test results on fruit collected October 28 and 29 with comparisons to the previous season are presented on page three. All averages are unadjusted as in prior seasons and provide a measure of change occurring in fruit still on the trees. The tests do not reflect the same levels of maturity as those being reported by processors from plant tests or plant recovery rates because the latter relate to fruit that has been harvested.

The final 2001-02 season all orange season average FCOJ yield as reported

Citrus production, October 1, 2002  
 forecasts by varieties and states, with comparisons

Crop and State	Production			Forecast
	1999-00	2000-01	2001-02	2002-03
Early, Midseason, and Navel Oranges:	--- 1,000 boxes ---			
<b>FLORIDA</b>	<b>134,000</b>	<b>128,000</b>	<b>128,000</b>	<b>113,000</b>
California	40,000	35,500	34,000	40,000
Texas	1,460	2,000	1,530	1,400
Arizona	600	480	270	200
Total Above Varieties	176,060	165,980	163,800	154,600
Valencias:				
<b>FLORIDA</b>	<b>99,000</b>	<b>95,300</b>	<b>102,000</b>	<b>84,000</b>
California	24,000	19,000	22,000	23,000
Texas	200	235	210	180
Arizona	500	420	250	250
Total Valencias	123,700	114,955	124,460	107,430
All Oranges:				
<b>FLORIDA</b>	<b>233,000</b>	<b>223,300</b>	<b>230,000</b>	<b>197,000</b>
California	64,000	54,500	56,000	63,000
Texas	1,660	2,235	1,740	1,580
Arizona	1,100	900	520	450
Total All Oranges	299,760	280,935	288,260	262,030

### FORECAST DATES 2002-03 SEASON

- December 10, 2002
- January 10, 2003
- February 11, 2003
- March 11, 2003
- April 10, 2003
- May 12, 2003
- June 11, 2003
- July 11, 2003

by the Florida Citrus Processors Association was 1.58 gallons per box. The next FCOJ yield projection will be released with the box forecasts on December 10. Separate projections for the early-midseason fruit and the later maturing Valencias will begin in the January report.

### CROP PROGRESS

Many areas in Florida's citrus belt had near average rainfall during October. However, some caretakers on the high sand hills utilized their irrigation during the month to maintain good tree condition. Most new crop fruit is in good condition and fresh shipments for all types of early fruit are ahead of last year at the same time.

Several processors opened during October to take packing house eliminations. There were a few juice plants taking grove run fruit the last week of the month. Fresh fruit packing houses have been very active shipping Navels, Hamlins, and Ambersweet oranges, white and colored grapefruit, early tangerines and a few tangelos. Virtually all of Florida's citrus processing plants are scheduled to be open by mid-November.

Caretakers are very busy cutting cover crops for the upcoming winter season. Growers are completing their fall fertilizing, herbiciding and spraying. Dead trees are being removed and burned. Some resets are being planted in the larger groves with irrigation.

**FLORIDA CITRUS: Distribution of 2001-02 production and 2002-03  
forecast by marketing districts and fruit types**

Fruit type	Indian River		Gulf		Florida SunRidge		State total	
	2001-02	2002-03	2001-02	2002-03	2001-02	2002-03	2001-02	2002-03
--- 1,000 boxes ---								
<b>ORANGES:</b>								
Early-midseason-Navel	10,000	7,400	22,600	23,400	95,400	82,200	128,000	113,000
Valencia	10,100	9,100	27,600	22,900	64,300	52,000	102,000	84,000
Total All Oranges	20,100	16,500	50,200	46,300	159,700	134,200	230,000	197,000
<b>GRAPEFRUIT:</b>								
White	12,200	11,200	1,500	1,500	5,200	4,300	18,900	17,000
Colored	19,200	16,000	4,200	4,200	4,400	4,800	27,800	25,000
Total Grapefruit	31,400	27,200	5,700	5,700	9,600	9,100	46,700	42,000

Citrus production, October 1, 2002  
forecasts by varieties and states, with comparisons

Crop and State	Production			Forecast
	1999-00	2000-01	2001-02	2002-03
--- 1,000 boxes ---				
Grapefruit:				
<b>FLORIDA-All</b>	<b>53,400</b>	<b>46,000</b>	<b>46,700</b>	<b>42,000</b>
<b>White</b> <sup>1/</sup>	<b>21,500</b>	<b>18,700</b>	<b>18,900</b>	<b>17,000</b>
<b>Colored</b>	<b>31,900</b>	<sup>2/</sup> <b>27,300</b>	<b>27,800</b>	<b>25,000</b>
Texas	5,930	7,200	5,900	5,600
Arizona	450	250	160	100
California	7,200	6,300	6,000	6,200
Total Grapefruit	66,980	59,750	58,760	53,900
Lemons:				
California	19,000	22,600	19,000	21,000
Arizona	3,100	3,600	2,800	2,800
Total Lemons	22,100	26,200	21,800	23,800
Limes: <b>Florida</b>	<b>600</b>	<b>250</b>	<b>150</b>	<sup>3/</sup>
Temples: <b>Florida</b>	<b>1,950</b>	<b>1,250</b>	<b>1,550</b>	<b>1,400</b>
Tangelos: <b>Florida</b>	<b>2,200</b>	<b>2,100</b>	<b>2,150</b>	<b>2,400</b>
K-Early: <b>Florida</b>	<b>110</b>	<b>40</b>	<b>30</b>	<sup>3/</sup>
Tangerines:				
<b>FLORIDA-All</b>	<b>7,000</b>	<b>5,600</b>	<b>6,600</b>	<b>5,200</b>
Early <sup>4/</sup>	<b>4,350</b>	<b>3,550</b>	<b>4,350</b>	<b>3,100</b>
Honey	<b>2,650</b>	<b>2,050</b>	<b>2,250</b>	<b>2,100</b>
California <sup>5/</sup>	2,500	2,200	2,200	2,300
Arizona <sup>5/</sup>	850	650	620	450
Total Tangerines	10,350	8,450	9,420	7,950

<sup>1/</sup> Includes seedy. <sup>2/</sup> Excludes two million boxes of economic abandonment.

<sup>3/</sup> No forecast. <sup>4/</sup> 1999-00 through 2001-02 -- Robinson, Fallglo, Sunburst, and Dancy; 2002-03 forecast -- Fallglo and Sunburst only. <sup>5/</sup> Includes tangelos.

**ESTIMATE OF PRODUCTION  
BY MARKETING DISTRICTS**

Production forecasts made in October for Florida oranges and grapefruit have been divided between marketing districts for this report. These are shown in the table above with the 2001-02 estimates of production for comparisons. Marketing District II is the legally defined Indian River District along the East Coast. Marketing District III includes the Gulf counties of Charlotte, Collier, Glades, Hendry, and Lee. Marketing District I-the Florida SunRidge-includes all other citrus producing counties.

**MATURITY AND WEATHER**

The maturity test results reported on page three are from fruit collected October 28-29 and tested October 30-November 1. Samples were collected from the same trees as the September and October surveys and reflect maturity levels for unharvested fruit.

The average pounds solids per box for all oranges and colored grapefruit is the highest for the November 1 tests in the ten year historic series. White grapefruit are lagging behind with slightly lower percent Brix and pounds of juice per box. The acid to solid ratios are all higher than last year at the same time due to the lower acids. The pounds of unfinished juice per box for early and midseason oranges is surpassed by only the 1995-96 season in the ten year series.

Rainfall in most areas was generally above average from mid-June through September. Fruit sizes for all oranges and grapefruit are above average for November 1. A distribution of sizes in two different measurements is illustrated on page four of this report.

**UNADJUSTED MATURITY TESTS: Average of regular bloom fruit from sample groves, 2001-02 and 2002-03 seasons**

Fruit type (No. groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2001-02	2002-03	2001-02	2002-03	2001-02	2002-03	2001-02	2002-03	2001-02	2002-03
	Percent		Percent				Pounds		Pounds	
Juice and solids per box are unadjusted and not comparable to plant test results.										
<b>ORANGES:</b>										
Early (115-119)										
Sep 1	1.38	1.29	9.64	9.40	7.14	7.45	43.22	45.27	4.17	4.26
Oct 1	0.97	0.89	9.80	9.82	10.31	11.40	48.96	51.77	4.80	5.08
Nov 1	0.80	0.71	10.48	10.53	13.36	15.24	51.39	53.17	5.38	5.60
Mid (55-55)										
Sep 1	1.58	1.42	9.37	9.03	6.03	6.46	42.87	45.90	4.02	4.14
Oct 1	1.17	1.01	9.56	9.58	8.39	9.68	49.75	52.84	4.76	5.06
Nov 1	0.96	0.83	10.47	10.42	11.19	12.87	53.16	54.65	5.56	5.69
Late (150-150)										
Sep 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oct 1	2.19	2.04	8.87	8.70	4.11	4.34	47.72	48.96	4.23	4.26
Nov 1	1.76	1.64	9.20	9.23	5.31	5.72	52.00	52.37	4.79	4.83
<b>GRAPEFRUIT:</b>										
White Seedless (49-46)										
Sep 1	1.66	1.56	9.81	9.68	5.93	6.22	33.90	34.90	3.33	3.38
Oct 1	1.45	1.43	9.73	9.92	6.71	6.99	38.83	37.95	3.78	3.76
Nov 1	1.32	1.26	9.82	10.22	7.44	8.19	42.16	40.23	4.14	4.10
Colored Seedless (44-42)										
Sep 1	1.65	1.54	10.05	10.17	6.12	6.62	34.62	35.97	3.48	3.66
Oct 1	1.43	1.33	10.08	10.33	7.06	7.81	40.15	39.50	4.05	4.08
Nov 1	1.26	1.19	10.16	10.70	8.10	9.02	43.93	42.20	4.47	4.52

NOTICE: All samples were run through an FMC 091 machine using mechanical pressure only. This machine utilizes a .040 short strainer and standard 5/8-inch orifice tube. The beam settings are also identical to past tests and no restrictors are used.

Maturity test averages by areas, November 1, 2002

Fruit type	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
	Number	Percent	Percent		Pounds	Pounds
<b>ORANGES:</b>						
Early						
Indian River Dist.	11	0.73	11.04	15.33	52.21	5.76
Other Areas	108	0.71	10.48	15.23	53.27	5.58
Midseason						
Indian River Dist.	12	0.82	10.52	12.85	54.25	5.71
Other Areas	43	0.83	10.39	12.88	54.77	5.69
Late						
Indian River Dist.	28	1.69	9.45	5.66	52.16	4.93
Other Areas	122	1.63	9.18	5.74	52.41	4.81
<b>GRAPEFRUIT:</b>						
White Seedless						
Indian River Dist.	36	1.30	10.39	8.08	39.79	4.12
Other Areas	10	1.14	9.63	8.60	41.82	4.03
Colored Seedless						
Indian River Dist.	36	1.19	10.74	9.11	41.91	4.51
Other Areas	6	1.23	10.43	8.50	43.95	4.58

## FRUIT SIZE COMPARISONS BY TYPES TO PREVIOUS SEASONS

Size frequency distributions developed from the October size survey are shown in the following table. The distributions are by percent of fruit falling within the size range of each 4/5-bushel container. These frequency distributions relate to fruit from regular bloom and exclude summer bloom in all years.

**Florida Citrus:** Size frequency distributions from October measurements

Type of fruit and size in 4/5-bushel containers	2000	2001	2002
--- Percent ---			
<b>Early and midseason oranges: (excluding Navels)</b>			
64 and larger	0.2	1.3	2.2
80	2.9	5.7	11.2
100	17.2	23.1	33.0
125	38.4	37.9	34.2
163 and smaller	41.3	32.0	19.4
<b>Navel oranges:</b>			
64 and larger	41.6	49.0	49.1
80	35.0	32.3	34.6
100	19.4	15.1	12.4
125	3.3	3.0	3.3
163 and smaller	0.7	0.6	0.6
<b>Valencia oranges:</b>			
64 and larger	0.2	0.9	3.1
80	3.3	8.1	18.4
100	23.4	30.4	40.7
125	42.1	34.6	27.0
163 and smaller	31.0	26.0	10.8
<b>White seedless grapefruit:</b>			
32 and larger	5.1	5.9	16.6
36	10.8	10.7	20.0
40	17.2	17.0	22.9
48	22.0	19.6	17.9
56	16.3	15.5	9.2
63 and smaller	28.6	31.3	13.4
<b>Colored seedless grapefruit:</b>			
32 and larger	3.2	2.8	11.9
36	7.6	9.0	15.3
40	14.6	14.1	21.5
48	20.4	18.8	20.3
56	17.9	17.6	12.1
63 and smaller	36.3	37.7	18.9
<b>Honey tangerines:</b>			
80 and larger	0.4	3.7	4.7
100	12.5	21.7	15.0
120	29.9	28.8	30.0
176	19.6	17.7	20.1
210 and smaller	37.6	28.1	30.2
<b>Sunburst tangerines:</b>			
80 and larger	4.6	4.5	11.0
100	19.7	13.1	26.1
120	31.5	23.0	32.6
176	18.2	18.5	16.4
210 and smaller	26.0	40.9	13.9
<b>Tangelos:</b>			
80 and larger	7.1	24.9	23.6
100	22.1	32.1	30.3
120	34.3	23.3	29.5
156 and smaller	36.5	19.7	16.6

The charts below describe the relationships of the fruit size measurements with those taken in the previous year. The diameter measurements shown are the minimum values of each eighth inch range, except for the smallest values.

CHART 1: Early and midseason oranges (excluding Navels) size frequency by diameter from October measurements.

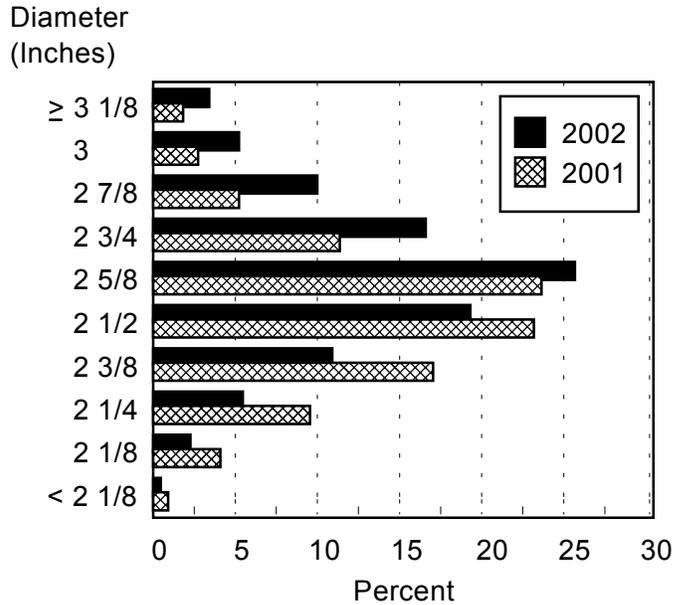


CHART 2: White seedless grapefruit size frequency by diameter from October measurements.

